14 August 2020

Ms. Leslie A. Howard, Remedial Project Manager, HPNS
Base Realignment and Closure Program Management Office, West
33000 Nixie Way, Bldg. 50
San Diego, California 92147

Subject: Monthly Landfill Gas Monitoring Letter Report for August 2020
Post-Removal Action, Parcel E-2 Industrial Landfill
Hunters Point Naval Shipyard, San Francisco, California

Dear Ms. Howard,

Monthly landfill gas monitoring for Parcel E-2 was performed on Tuesday, August 11, 2020 at the Hunters Point Naval Shipyard (HPNS). Monitoring was performed using an Eagle-2 landfill gas meter and a MiniRAE 3000 photo-ionization detector (PID) at gas monitoring probe locations GMP08A, GMP23 and GMP24. Sample point GMP08A is located on the landfill side of the perimeter fence line (northeast) while GMP23 and GMP24 are located within the UCSF compound as shown on Figure 1.

Results for this routine monitoring event are provided in Table 1 and are summarized below.

Methane

- Methane was detected by the field monitoring equipment at very low levels in the sample extracted from GMP24 (0.2%), but was not detected in the samples from GMP08A and GMP23.

Per the project's Final Interim Landfill Gas Monitoring and Control Plan[1], the methane action levels are as follows:

- The HPNS action level for GMPs along the fence line, in the UCSF compound, and along Crisp Ave. is 2.5% by volume in air.
- The regulatory action level for the concentration of methane gas migrating from the landfill must not exceed 5% by volume in air at the property boundary or an alternative boundary approved in accordance with 27 CCR §20925.

Since all methane readings were 0.2% or less, they are well below the action levels for this monitoring period, and no further action is required.

[1] Tetra Tech, 2004. Final Interim Landfill Gas Monitoring and Control Plan, Parcel E, Industrial Landfill, Hunters Point Shipyard, San Francisco, California. August 13.

Non-Methane Organic Compounds (NMOCs)

- NMOCs were not detected by field monitoring equipment in any of the measurements made at GMP08A, GMP23, or GMP24.

Per the project's Final Interim Landfill Gas Monitoring and Control Plan (Tetra Tech, 2004), the NMOC action level at these locations is as follows:

- 500 parts per million volume (ppmv) in GMPs

Since no NMOCs were detected by the field equipment during this monitoring event, all readings were clearly below the action level. Therefore, no further action is required.

Monitoring-Related Notes

- Both the Eagle-2 landfill gas meter and the MiniRAE 3000 PID were checked for calibration before and after this monitoring event

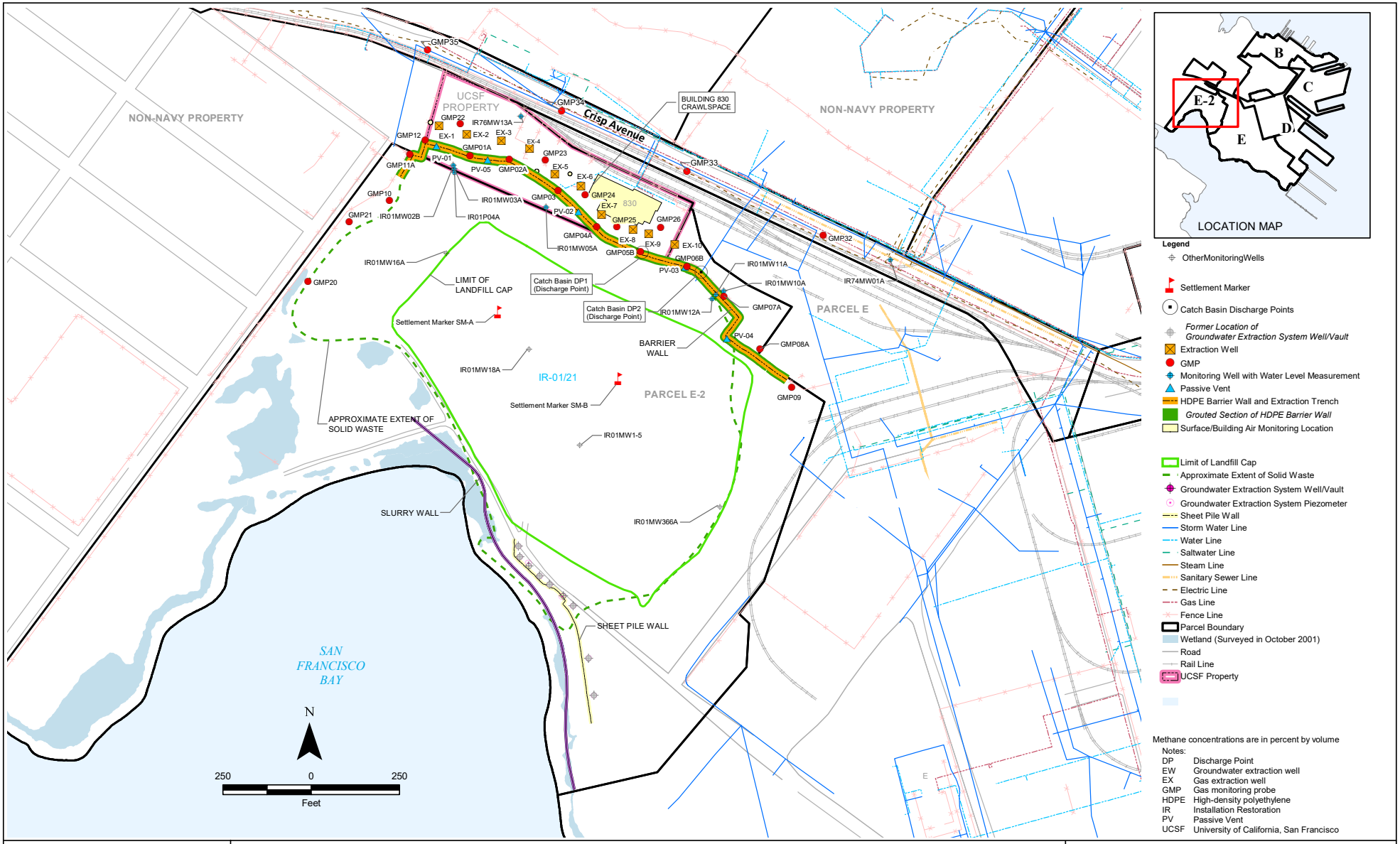
The above monitoring information also will be included in the Quarterly Monitoring Report for July, August, and September 2020 to be prepared in October 2020.

The field data (Table 1) and a map showing monitoring point locations for this project (Figure 1) are included in this report. Please let me know if you have comments or questions about this monitoring event or the data included herein. You can reach me at (949) 887-2615 or by e-mail at derrick.coleman@inyainc.com.

Sincerely,

Derrick Coleman, Ph.D.
INYA Inc., Senior Project Manager

Enclosures: Figure 1. Site Map and Landfill Gas Monitoring Locations
Table 1. Landfill Gas Monitoring Log



AUGUST 2020

Landfill Gas Monitoring Report
Hunters Point Naval Shipyard
San Francisco, California

FIGURE 1
Site Map and
Landfill Gas Monitoring Locations

Table 1. Landfill Gas Monitoring Log

Weather: Clear, warm

Name: Chris McCormack

Sampling Location						Eagle-2				PID			
Location ID	Description	Date	Time	Temp (°F)	Barometric Pressure (in. Hg)	Methane (%)	CO_2 (%)	O_2 (%)	Methane (as percentage of LEL)	NMOC	Bckgrd. NMOCs (ppmv)	Soil Gas Pressure (in. H_20)	Notes (e.g., active extraction, flow rate, probe damage, instrument issues)
GMP08A	Gas Monitoring Probe	8/11/20	14:08	66	29.94	0.0	0	9.2	0.0%	0.0	0.0	-0.08	
GMP23	Gas Monitoring Probe	8/11/20	14:26	66	29.94	0.0	0	4.5	0.0%	0.0	0.0	-0.08	
GMP24	Gas Monitoring Probe	8/11/20	14:35	66	29.94	0.2	0	0.0	3.8%	0.0	0.0	-0.07	

Note: All sample locations were purged for at least 1 minute at 50 SCFH before collecting data.

Legend:

%:	percent by volume in air	NA:	not applicable
°F:	degrees Fahrenheit	NMOC:	non-methane organic compound
CO_2:	carbon dioxide	O_2:	oxygen
Eagle-2	RKI Instruments Eagle-2, landfill gas meter	PID:	photoionization detector
in. Hg:	inches of mercury	ppmv:	parts per million by volume
in. H_20:	inches of water	SCFH	standard cubic feet per hour
LEL:	lower explosive limit	VOC:	volatile organic compound